

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 97 AND SPARTAN RD./MORNINGWOOD DR. IN MONTGOMERY COUNTY. MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. THIS WORK IS NECESSITATED BY REVISING THE LANE CONFIGURATION ON SPARTAN RD. AND WILL INVOLVE THE INSTALLATION OF THE DETECTORS, PAVEMENT MARKINGS AND SIGNING.

CONTROLLER OPERATION

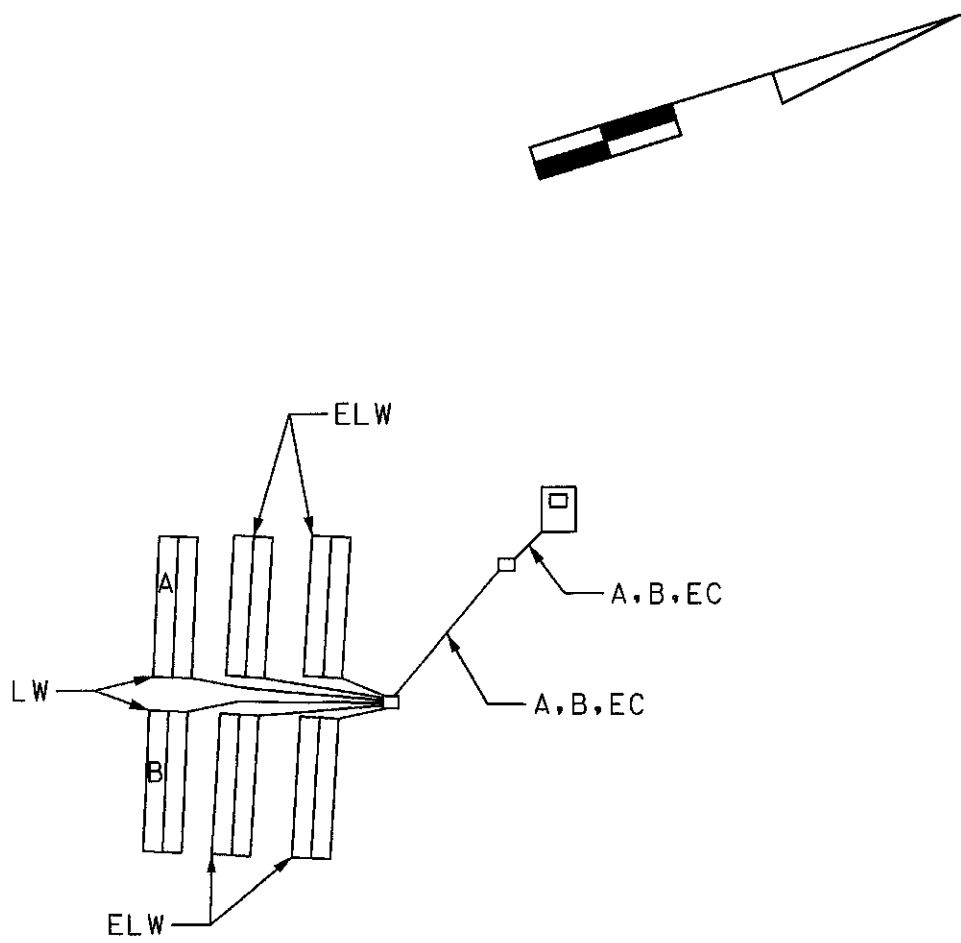
THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. THE CONTROLLER CURRENTLY OPERATES AS A SIX PHASE SEMI-ACTUATED CONTROLLER AND WILL NOT BE CHANGED.

INSTALL ONE-FOUR CHANNEL LOOP DETECTOR AMPLIFIER INTO THE EXISTING BASE MOUNTED CABINET.

WIRING DIAGRAM

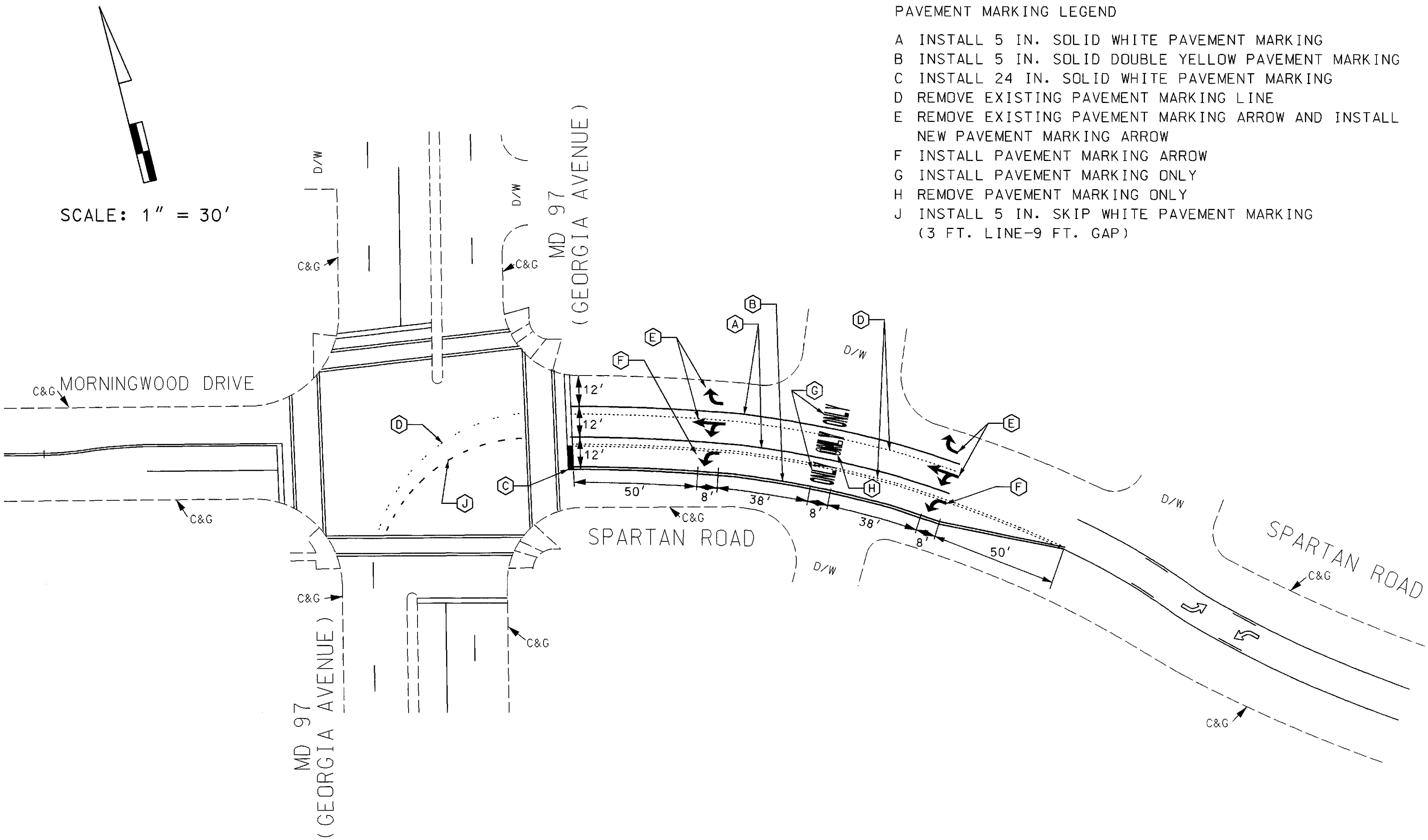
WIRING KEY

- A-B 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
- LW LOOP WIRE (NO. 14 A.W.G.)
- ELW EXISTING LOOP WIRE
- EC EXISTING CABLE



PAVEMENT MARKING LEGEND

- A INSTALL 5 IN. SOLID WHITE PAVEMENT MARKING
- B INSTALL 5 IN. SOLID DOUBLE YELLOW PAVEMENT MARKING
- C INSTALL 24 IN. SOLID WHITE PAVEMENT MARKING
- D REMOVE EXISTING PAVEMENT MARKING LINE
- E REMOVE EXISTING PAVEMENT MARKING ARROW AND INSTALL NEW PAVEMENT MARKING ARROW
- F INSTALL PAVEMENT MARKING ARROW
- G INSTALL PAVEMENT MARKING ONLY
- H REMOVE PAVEMENT MARKING ONLY
- J INSTALL 5 IN. SKIP WHITE PAVEMENT MARKING (3 FT. LINE-9 FT. GAP)



EQUIPMENT LIST

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

| ITEM NO. | QUANTITY | DESCRIPTION |
|----------|----------|---|
| 1001 | 1 EA | MAINTENANCE OF TRAFFIC |
| 5001 | 400 LF | FURNISH AND INSTALL 5 IN. YELLOW HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING |
| 5002 | 350 LF | FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING |
| 5004 | 10 LF | FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING |
| 5005 | 8 EA | FURNISH AND INSTALL HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING LETTER |
| 5006 | 2 EA | FURNISH AND INSTALL HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING LEFT ARROW |
| 5006 | 2 EA | FURNISH AND INSTALL HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING RIGHT ARROW |
| 5006 | 2 EA | FURNISH AND INSTALL HEAT APPLIED PERMANENT PREFORM THERMOPLASTIC PAVEMENT MARKING LEFT/THRU ARROW |
| 5007 | 600 LF | REMOVE EXISTING PAVEMENT MARKING LINE |
| 5008 | 8 EA | REMOVE EXISTING PAVEMENT MARKING LETTER OR ARROW |
| 8021 | 220 LF | FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR) |
| 8023 | 15 LF | FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE |
| 8040 | 750 LF | FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.) |
| 8041 | 80 LF | FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED) |
| ---- | 1 EA | FURNISH AND INSTALL R3-5R SIGN (30 IN. X 36 IN.) SPAN WIRE MOUNT |
| ---- | 1 EA | FURNISH AND INSTALL R3-5L SIGN (30 IN. X 36 IN.) SPAN WIRE MOUNT |
| ---- | 1 EA | FURNISH AND INSTALL R3-6 SIGN (30 IN. X 36 IN.) SPAN WIRE MOUNT |
| ---- | 1 EA | FURNISH AND INSTALL FOUR CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER |
| ---- | 2 EA | REMOVE EXISTING SPAN WIRE MOUNTED SIGN |

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 97 AND SPARTAN RD./MORNINGWOOD DR.

| | | | |
|-------------------|--------------------|---------------------|-----------|
| DRAWN BY: T.M.Z | F.A.P. NO. | TS NO. | SHEET NO. |
| CHECKED BY: K.W.S | S.H.A. NO. | 2452E GI | |
| SCALE: NONE | COUNTY: MONTGOMERY | T.I.M.S. NO. E-953X | |
| DATE: 7-28-00 | LOG MILE: | 2 OF 2 | |